AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) An isolated nucleic acid molecule comprising:
 - a) a nucleic acid having a nucleotide sequence

 comprising a full length open reading frame which
 encodes an amino acid sequence exhibiting at least

 4085% sequence identity to an amino acid sequence in
 the Sequence Listing; encoded by
 - (1) a nucleotide sequence described in Tables 1 and/or 2 or a fragment thereof; or
 - b) a nucleotide sequence that is complementary to any one of the nucleotide sequences according to paragraph (a);
 - (2) a complement of a nucleotide sequence shown in Tables 1 and/or 2 or a fragment thereof;
 - b) a nucleie-acid which is the reverse of the nucleotide sequence according to subparagraph (a), such that the reverse nucleotide sequence has a sequence order which is the reverse of the sequence order of the nucleotide sequence according to subparagraph (a);
 - c) a nucleic acidnucleotide sequence capable of
 hybridizing to a nucleic acidnucleotide sequence
 according to any one of paragraphs (a) (c) having
 a sequence selected from the group consisting of:
 a nucleotide sequence which is shown in Tables 1
 and/or 2; and a nucleotide sequence which is
 complementary to a nucleotide sequence shown in
 Tables 1 and/or 2, under conditions that permit
 formation of a nucleic acid duplex at a temperature
 from about 5°C to 10°C 40°C and 48°C below the melting
 temperature of the nucleic acid duplex; or, with the
 provise that said nucleotide sequence is not any of
 the sequences described in the Tables of any of

Patent Publication Nos. WO 200040695,—CA 2300692-A1,
EP 1033405 A2, CA 2302828 A1 and EP 1059354 A2 and
any proteins listed in the application that are
identified by g1 number or otherwise as being-from
the non-redundant GenBank CD8 translations or
Protein Database (PDB) at
http://www.rcsb.org/pdb/+SwissProt
(http://www.expasy.ch/sprot/sprot top.html)—or
(PIR-International)—Database (PIR) at
http://pir.georgetown.edu/index.shtml

- d) a nucleotide sequence comprising a full length
 reading frame which has at least 85% sequence
 identity to a nucleotide sequence in the Sequence
 Listing.
- (Currently Amended) An isolated nucleic acid molecule comprising a nucleic acid having a nucleotide sequence which exhibits at least 6595% sequence identity to
 - a) a nucleotide sequence shown in Tables 1 and/or2 or a fragment thereof; or
 - b) a complement of a nucleotide sequence described in Tables 1 and/or 2 or a fragment thereof, with the proviso that said nucleotide sequence is not any of the sequences described in the Tables of any of Patent Publication Nos. WC 200040695, CA 2300692 Al, EP 1033405 A2, CA 2302828 A1 and EP 1059354 A2 and any proteins listed in the application that are identified by gi number or otherwise as being from the non redundant CenBank CDS translations or Protein Database (PDB) at http://www.rcsb.org/pdb/+SwissProt (http://www.expasy.ch/sprot/sprot-top.html) or (PIR International) Database (PIR) at http://pir.georgetown.cdu/index.shtml.

- Canceled
- 4. Canceled
- 5. Canceled

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- 6. (Original) A vector construct comprising:
 - a first nucleic acid having a regulatory sequence capable of causing transcription and/or translation; and
 - b) a second nucleic acid having the sequence of the isolated nucleic acid molecule according to claim 1; wherein said first and second nucleic acids are operably linked and wherein said second nucleic acid is heterologous to any element in said vector construct.
- 7. (Original) The vector construct according to claim 6, wherein said first nucleic acid is native to said second nucleic acid.
- 8. (Original) The vector construct according to claim 6, wherein said first nucleic acid is heterologous to said second nucleic acid.
- 9. (Original) A host cell comprising an isolated nucleic acid molecule according to claim 1, wherein said nucleic acid molecule is flanked by exogenous sequence.
- 10. (Original) A host cell comprising a vector construct of claim 6.
- 11. (Currently Amended) An isolated polypeptide comprising an amino acid sequence
 - exhibiting at least 40%, or 75%, or 85%, or 90% sequence identity of to an amino acid sequence in the Sequence Listing encoded by a sequence shown in Tables 1—and/or 2 or a fragment thereof; and
 - b) capable of exhibiting at least one of the biological activities of the polypeptide encoded by said nucleotide sequence—shown in Tables 1 and/or 2—or a fragment thereof, with the provise that said nucleotide sequence is not any of the sequences

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described in the Tables of any of Patent Publication
Nos. WO-200040695, CA-2300692 Al, EP 1033405 A2, CA
2302828 A1 and EP 1059354 A2 and any proteins listed
in the application that are identified by gi number
or otherwise as being from the non-redundant GenBank
CDS translations or Protein Database (PDE)—at
http://www.rcsb.org/pdb/+SwissProt
(http://www.expasy.ch/sprot/sprot-top.html) or
(PIR International) Database (PIR)—at
http://pir.georgetown.edu/index.shtml.

- 12. (Original) An antibody capable of binding the isolated polypeptide of claim 11.
- 13. (Original) A method of introducing an isolated nucleic acid into a host cell comprising:
 - a) providing an isolated nucleic acid molecule according to claim 1; and
 - b) contacting said isolated nucleic with said host cell under conditions that permit insertion of said nucleic acid into said host cell.
- 14. (Original) A method of transforming a host cell which comprises contacting a host cell with a vector construct according to claim 6.
- 15. (Original) A method of modulating transcription and/or translation of a nucleic acid in a host cell comprising:
 - a) providing the host cell of claim 9; and
 - b) culturing said host cell under conditions that permit transcription or translation.
- 16. (Original) A method for detecting a nucleic acid in a sample which comprises:
 - a) providing an isolated nucleic acid molecule according to claim 1;
- b) contacting said isolated nucleic acid molecule with a sample under conditions which permit a comparison of the sequence of said isolated nucleic acid

molecule with the sequence of DNA in said sample;

- 10 c) analyzing the result of said comparison.
 - 17. (Original) A plant or cell of a plant which comprises a nucleic acid molecule according to claim 1 which is exogenous or heterologous to said plant or plant cell.
 - 18. (Original) A plant or cell of a plant which comprises a vector construct according to claim 6.
 - 19. (Original) A plant which has been regenerated from a plant cell according to claim 17.
 - 20. (Original) A plant which has been regenerated from a plant cell according to claim 1.